

EMBIID NOTES

1-21-87 One culture with 2 ♀ (one damaged) and small nymphs E. slope Cerro Montuoso 500M Prov. Los Santos. Colonies speckled with frass 1♀ in each in bark flakes and crevices of dead stumps and large limbs on ground. Conditions dry. At edge of virgin forest with monkeys.

1-22-87

One culture 5 km S. Santa Fe 350 m.
Dead bark and rock cracks in coffee plantation.
with residual Mtn forest trees Small Bl. Oligembia
Seems to be same as Parque Summit. several ♀
Some but dead at Santa Fe +- 800 m
No embiid traces in high mtn forest 1515 m

1-23 Stop 1 Scrub paper bark
Few webs no embiids 200 M Anacardiaceae "El Carmen"

1-23 Stop 2 One culture, Panama Rio Tabasará
(I called this Rio Viqui before) 139 m. Black ♀ &
Oligembia + 1 large nymph. Bark flakes large
native trees along river

1-23 Stop 3 One culture 200 M 1st river w. of
Bugaba (at edge of town) Powdery webs on bark of
trees along E. bank of river (common). Most bark
had sheet webs of moth larva very similar to
embroids but with white exos within.
Several adult ♀♀, nymphs various sizes incl 2 penult
males. Isotypic Chelicerca ruficollis

1-24 Just below Cerro Punta
Small woods with numerous sapling cuts and
scars. Embiid webs loose in crevices, extending
on to surface into dense moss. Good series
of immature, several ♀ and 2 adult, large-winged
males in alcohol. Several penult ♂ very active.
New species. 1 ♂ past trip.

1-24 Rio Platinal, about 5 Km W David
Gallery forest - no webs seen. 2 ♀ adults (1/web)
on undersurface of 5" limb on ground. Recent fall.
Broken off of larger tree - fall. Late stage bark
with numerous psocids and prionines.

1-25 No embiids east of cordillera S. of
Chiriqui Grande. Webs seen just S. of pass
in Mtn forest on stumps in capital photos of
bromeliads. Perhaps baby embiids in debris

1-27 1 penult ♂ + adult ♀ Cheliarca
Bark cracks large tree in Balaneros about
4 Km N. David.

1-28 1700 m S. slope Volcan Barú
Mtn oak woodland 1 adult ♀ (cryptic?) underneath
fresh dead limb on dry leaf litter. Cheliarca

1-28 Same at 1000 m 1st instar
only.

1-30-87

1300 m

Chelicerca in Volcan prob same as C. Punta
2 permult ♂ possibly a ♀ in dry bark
of cypress trees esp. at base. 1 ♂ in
wet under stone. Some galleries under
foliate lichens very rare

1-31-87

El Valle 600 M

3-4 1st instar, dry bark, in settled area.
Larger white ~~the~~ webs speckled with feces could be
saundersii

1-31-87 La Mesa above El Valle 1200 M

2-3 permult ♂ 2 permult ♀ Oligymbia under
loose moss and vines in cloud forest on small
tree along road.

1-31-87 La Mesa, above El Valle 1200 M

Chelicerca webs common on several large trees
along road near chicken farm. took photo.
Webs extend into cracks and along appressed
vine stems. No embiids were found in
dense forest

II-2-87 Cerro Campana (base) 625 m

Several adult ♀ and 1st + 2nd instar young
shut webs associated with large bark flakes on
large, high forest trees in semi-cleared slope

One high dead snag with conspicuous sheet
webs. Parachrysochloris

BCI II-10 100 M

Dark, virgin forest few nymphs Olig.
1 adult ♂ in very indistinct galleries (filings)
under flat-leaf vine and in moss on
12" tree. Embryos not seen elsewhere in
spite of prolonged search.

1-23-87 Hotel Santa Santiago --- 16.00 (2)
 Fruit --- 4.00
 Gasoline --- 11.70
 Dinner (2) --- 14.75
 Hotel (2) --- 19.70
 1-24-87 Breakfast --- 4.00
 Lunch --- 4.50
 Sun glasses --- 18.75
 Gas (David) --- 8.00

1987 PANAMA
 NOTES

~~1-25-87~~ Hotel (David) - Fiesta --- 43.80
 Dinner for 2 --- 18.20
 Fruit (David) --- 2.25
 1-25-87 Lunch (2) --- 4.25
 Dinner (2) --- 12.50
 Hotel (David) --- 52.90
 New door window (David) --- 118.78
 Labor " " " " --- 10.00
 New flash and batteries (David) --- 43.00 NCU
 Breakfast (David) --- 3.25
 Lunch (Santiago) --- 4.00
 Dinner (Santiago) --- 5.20
 Gas " " --- 15.75
~~1-26-~~ Oil (Chitree) --- 1.75
 1-26-87 Hotel (Santiago) (4) --- 10.00
 1-27-87 Breakfast " --- 1.50

#30 20/20 Rio San Pablo Collecting stop 1st trip W = 5 km N
 #31 " Fence 395 409 Remedios
 Webs to webs F3 " 50 M Black & Oligosia culture
 David (Lunch) 18484 --- 7.00
 1♀ 1 penult ♂ link Balamario 100 M Just N. David
 Roll 18 ends here

Send Kodak address to Cecilia

1-28-87 Roll 18
 Rainbow over Volcan Barro + Petersen farm
 Scenes around Boquete
 Bromeliad below Volcan about 1200 m², 105 mm F4 flesh
 " " " " F4 no flesh

1-29-87 Two nights hotel in Boquete --- \$30.00
 Provisions Boquete --- 14.75
 Gasoline David --- 7.00
 Lunch Boquete --- 10.50
 Motel in Volcan --- 17.50

1-30-87 Breakfast in Volcan --- 2.00
 Lunch in Santiago --- 3.25
 Gas in " --- 8.00
 Motel in El Valle --- 20.00
 Dinner in " --- 2.75

1-31-87 Groceries " --- 3.75
 Motel in " --- 20.00

II-1-87 Gas in Chame --- 5.00
 2 Stayed nights in Cerro Campana no cost

II-3-87 Lunch for two Hotel Ejecutivo --- 12.95
 Field shirt, Panama City --- 26.20

II-4-87 Hotel bill --- Lens cap --- 4.73
 Breakfast --- 48.20
 Lunch --- twizzlers --- 1.75
 --- 8.40
 Gas --- 10.25

II-5-87 Stayed at Kuna Yala locality = NUSAGANDI
 PEMASKY

II-6-87 Paid for 2 days at " --- 40.00
 Project for study and management of the forest area Food 11.25
 Yala area.
 Pemasky, APDO 2012, Paraiso, Ancon, Panama, Panama
 Oficina - 31, Avenida Balboa, Calle 27 Edificio Metro
 Mariño Campos Pemasky, Apeldo 2012
 Paraiso, Ancon, Panama